

## EP WELLS DAILY OPERATIONS REPORT

Report 13

06/20/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1406H
Wellbore	UNIVERSITY 19 PW UNIT 1406H
WBS No/API No	30264949 / 4230133213.00

## Event Summary

Event Type	Drilling only	Event Start Date	04/26/2017	Days on Location	12.54
Objective	Drill - Wolfcamp B1 Shale	Original Spud Date	04/30/2017	Days Since Spud	8.00
Est. Days	25.00	Contractor	PRECISION		
Work Unit	PRECISION 559	Days To Release			
		Rig Phone/FAX No.			

## Well Status

Supervisor	DENNIS JOHNSON	Measured Depth(ft)	11,983.00
Engineer	YERMEK TYNYSHBAYEV	TVD(ft)	11,642.86
Other Supervisor	TANNER MANUEL / YU LIU	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,793.00 / 2,767.00	Hole size(in)	8.750
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	9.625in@4,921.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	7.000in@11,992.00ft
Actual cost to date/AFE	994,899/2,664,436.41	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.37	LOT/FIT EMW(ppg)	
Daily Cost	45,558	Lithology	
		Formation/MD Top	

## HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI <b>GOAL ZERO DAYS</b> <b>PS BARRIER EVENT</b> <b>PS barrier bowtie review</b>	10/12/2016	251	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
MAN HRS: 327							
NO HSE ISSUES.							

## HSE Drills

Drills/Tests	Date	Days Since Last	JSA's/Toolbox Talks Days Since Last Drill	12
Last Derrick Inspection	06/15/2017	5		
Last BOP function test	06/15/2017	5		
Last BOP Test	07/06/2017			
Next BOP Test				

## Operations Summary

24 Hour Summary
PUMP CLEAN UP CYCLES. POOH LAYING DOWN 5" DRILL PIPE F/ 11983' - T/ 101'. L/D CURVE BHA. PULL WEAR BUSHING. RUN 7" CASING F/ SURFACE - T/ 2486'.
Update Since Report Time
RUN 7" CASING F/ 2486' - T/ 7141'. FILL EVERY 30 JTS.
24 Hour Forecast
FINSIH RUNNING 7" CASING. LAND CASING HANGER. INDUCE FLOW. PUMP CEMENT. INSTALL & TEST PACKOFF. INSTALL BIT GUIDE. P/U LATERAL BHA & TIH WHILE PICKING UP 4" DP.

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## Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	2.00	INT1	CBU		11,983.00	0		PUMP CLEAN UP CYCLES. ROT 20, GPM 600, WORKING FULL STAND.
2:00	1.50	INT1	TOH		11,983.00	0		POOH WET F/ 11983 - T/ 11072'. (TOP OF CURVE). RACKING BACK 5" DP. (10 STANDS).
3:30	0.50	INT1	CDM		11,983.00	0		PUMP SLUG, DOWNLINK MWD TOOL.
4:00	2.00	INT1	TOH		11,983.00	0		POOH F/ 11072 - 9400'. FORCE FILLING. LAYING DOWN 5" DP.
6:00	1.00	INT1	CDM		11,983.00	0		BUILD KILL MUD. PUMP SLUG.
7:00	3.50	INT1	TOH		11,983.00	0		POOH F/ 9400' - T/ 5100'. FORCE FILLING. LAYING DOWN 5" DP.
10:30	0.50	INT1	SVC		11,983.00	0		RIG SERVICE: GREASE TOP DRIVE.
11:00	3.50	INT1	TOH		11,983.00	0		POOH F/ 5100' - T/ 1546'. FORCE FILLING. LAYING DOWN 5" DP.
14:30	0.50	INT1	TIH		11,983.00	0		TIH F/ 1546' - T/ 2626'. RAN RACKED PIPE IN DERRICK INTO HOLE.
15:00	1.00	INT1	TOH		11,983.00	0		POOH F/ 2626' - T/ 101'. FORCE FILLING. LAYING DOWN 5" DP.
16:00	1.00	INT1	BHA		11,983.00	0		L/D BHA. BIT #3 RUN #1 HALLIBURTON GTD64C (6X12's) SN: 1200069 (BIT GRADE: 1-3-CT-S-X-1-BT-TD)
17:00	1.00	INT1	SVC		11,983.00	0		CLEAR FLOOR OF ALL DIRECTIONAL TOOLS. PULL & L/D WEAR BUSHING.
18:00	2.00	INT1	RIC		11,983.00	0		PJSM WITH EXPRESS CASING CREW & RIG CREW. RIG UP CASING TOOLS.
20:00	4.00	INT1	CLR		11,983.00	0		MAKE UP SHOE TRACK & TEST (GOOD) RUN 7" CASING (29# LTC P110) F/ SURFACE - T/ 2486'. FILLING EVERY 30 JTS.
<b>Total</b>	<b>24.00</b>							

## Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
11,824.00	69.39	160.65	11,613.81	-62.02	-183.81	7.94	11.45	PTW MWD+HDGM_2016
11,913.00	80.64	160.20	11,636.79	-142.89	-155.04	93.63	12.65	PTW MWD+HDGM_2016
11,913.00	80.64	160.97	11,636.79	-143.25	-156.43	93.59	12.65	PTW MWD+HDGM_2016
11,965.00	87.50	161.00	11,642.16	-192.12	-139.59	145.22	13.19	PTW MWD+HDGM_2016
11,983.00	88.00	161.00	11,642.86	-209.12	-133.73	163.18	2.78	PTW MWD+HDGM_2016

## Fluid Details

Mud type	NaCl Brine	Oil/Water (%)	pH/Pm (cc) Pf/Mf (cc) Ca+ (ppm) Cl- (ppm)  R600/300 (°) R200/100 (°) R6/3 (°)
MD (ft)		TS/HGS/LGS (%)	
Mud Density (ppg)		Sand (%)	
Vis (s/qt)		MBT (lbm/bbl)	
PV/YP (cp/lbf/100ft²)		LCM (lbm/bbl)	
Gels 10 s/m (lbf/100ft²)		ECD (ppg)	
API/HTHP WL (cc/30min)		H2S (gas unit)	
FC/HTHP FC (32nd")		KCl (%)	
FL temp. (°F)		Ditch Magnet in Last 24hrs/Cum. (gm)	

## Bit Details

Bit no.	Size (in)	Manufacturer	Model no.	Class	IADC code	Serial no.	Size (32nd")	MD in (ft)	MD out (ft)	IADC Dull Grade
3	8.750	HALLIBURTON	GTD64C			1200069	6x12	11,115.00		-----

## Bit Operations

MD (ft)	WOB Min/Max (kip)	Current RPM (rpm)	Flow rate (gpm)	SPP (psi)	P bit (psi)	% @ Bit	HPH (hp)	Hours (hr)	Footage (ft)	ROP (ft/hr)	Hours cum (hr)	Footage cum. (ft)	ROP cum. (ft/hr)

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## Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
5" DRILL PIPE	304	10,436.82	5.000		4.276	4 1/2 IF			RIG
HWDP	12	374.06	5.000		2.875	4 1/2 IF			RIG
5" DRILL PIPE	24	1,067.35	5.000		4.276	4 1/2 IF			RIG
X/O SUB	1	3.45	5.000			4 1/2 IF			RIG
FLOAT SUB	1	3.49	6.500		2.875	4-1/2 XH			DR24146
SCREEN SUB	1	3.26	6.250		3.250	4-1/2 XH			DR27729
NMDC	1	32.57	6.280		2.875	4 1/2 XH			PXGFC6501111
GAP SUB	1	3.60	6.600			4 1/2 IF			VG650136P TS
650 CENTRALIZER COLLAR VELOCITY	1	8.54	6.680			4 1/2 IF			VC650049
650 LANDING SUB VELOCITY	1	3.52	6.630			4 1/2 IF			VL650024
650 X/O SUB VELOCITY	1	1.60	6.500			4 1/2 XH			VX650003
NMPC	1	15.15	6.500		2.880	4 1/2 XH			PXGPC6501066
PHX MUD MOTOR FBH 4/5 LOBE. STAGE 7 SET @ 2.38°	1	28.69	7.250			4-1/2 XH			24XH-67550 9-PTS
BIT #3 RUN #1 HALLIBURTON GTD64C (6X12's) SN: 1200069	1	0.90	8.750	8.750		4 1/2 REG			1200069

## Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
06/18/2017 21:30		3	478.83		DRILL 8.75" INTERMEDIATE SECTION

## Remarks

DIESEL ON LOCATION: 14572 GAL  
DIESEL DELIVERED: GAL  
DIESEL USED: 1028 GAL  
LNG USED: GAL